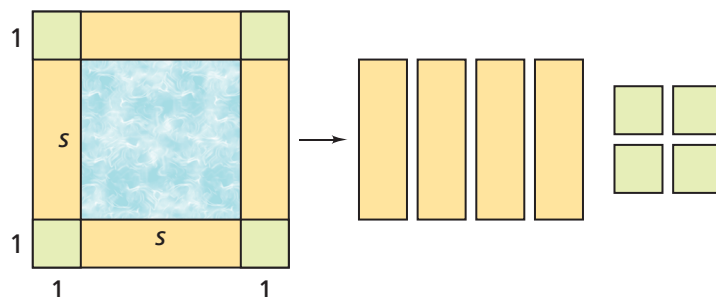


1.2 Thinking in Different Ways

When Takashi reported his ideas about an equation relating N and s in Problem 1.1, he made the following sketch.



- What equation do you think Takashi wrote to relate N and s ?

Problem 1.2 Determining Equivalence

- A.** Four students in Takashi's class came up with different equations for counting the number of border tiles. For each equation, make a sketch that shows how the student might have been thinking about the border of the pool.
1. Stella's equation: $N = 4(s + 1)$
 2. Jeri's equation: $N = s + s + s + s + 4$
 3. Hank's equation: $N = 4(s + 2)$
 4. Sal's equation: $N = 2s + 2(s + 2)$
- B.** Use each equation in Question A to find the number of border tiles needed for a square pool with a side length of 10 feet. Can you conclude from your results that all the expressions for the number of tiles are equivalent? Explain your reasoning.
- C.** Which of the expressions for the number of border tiles in Question A are equivalent to Takashi's expression? Explain.

ACE Homework starts on page 12.

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